

	10	20	30	40	50	60
HUMAN	MGIVEPGCGDMLTGTEPM	PGSDEGRAPGADPQHRYF	YPEPGAQDADERRGGGSLGSPY	PG		
MOUSE	MGIVEPGCGDMLTGTEPM	-SDEGRGPGADQQHRF	YFYPEPGAQDPTDRAGSSLGTPY	SG		
CONS	MGIVEPGCGDMLTGTEPM	SDEGR	PGAD	QHR	FYPEPGAQD	RR G SLG PY G
	70	80	90	100	110	120
HUMAN	GALVPAPP	SRLGAYAYPPR	PQAAGFPGAGESF	FFFFPADAEGYQ	PGE	GYAAPDPRAGLY
MOUSE	GALVPAAPGR	FLGSFAYPPRA	QVAGFPGPGEFF	PPAGAE	GYPPV	DGYPAPDPRAGLY
CONS	GALVPA	P RFLG	AYPPR	Q AGFP	GE FPPA	AEGY P GY APDPRAGLY
	130	140	150	160	170	180
HUMAN	PREDYALPAGLE	VSGKLRLVALNN	HILLWSKF	NQHQTEMI	ITKQGRRMFP	FLSFTVAGLEPT
MOUSE	PREDYALPAGLE	VSGKLRLVALSN	HILLWSKF	NQHQTEMI	ITKQGRRMFP	FLSFTVAGLEPT
CONS	PREDYALPAGLE	VSGKLRLVAL	NHILLWSKF	NQHQTEMI	ITKQGRRMFP	FLSFTVAGLEPT
	190	200	210	220	230	240
HUMAN	SHYRMFVDVVLVDQHHW	RYQSGK	WVQCGKAE	GSMPGNRLYV	HPDSPNTGAH	WMRQEV
MOUSE	SHYRMFVDVVLVDQHHW	RYQSGK	WVQCGKAE	GSMPGNRLYV	HPDSPNTGAH	WMRQEV
CONS	SHYRMFVDVVLVDQHHW	RYQSGK	WVQCGKAE	GSMPGNRLYV	HPDSPNTGAH	WMRQEV
	250	260	270	280	290	300
HUMAN	KLKL	TNNKGASNN	V	QMI	V	LQSLH
MOUSE	KLKL	TNNKGASNN	V	QMI	V	LQSLH
CONS	KLKL	TNNKGASNN	V	QMI	V	LQSLH

Fig. 1A

310 320 330 340 350 360
HUMAN AVTAYQNAEITQLKIDNNPFAKG**FRENFESMYTSVDT**SIPSPPGPNCFLGGDHYSPLLP

CONS AVTAYQNAEITQLKIDNNPFAKGFRNFESMY SVDTS PSPPGPNQC LGGD FSPLL

370 380 390 400 410 420
HUMAN NQYPVPSRFYPDLPQAKDVVHQAYWLGA
PRDHSYAEFRAVSMKPAFLPSAPGPTMSYY

MOUSE :
360 NQYPVPSRFPYDLPQPKDMISQPYWLGTPREHSYAEFRAVSMKPTLLPSAPGPTVPIY
370
380
390
400
410

CONS NQYPVPSRFYPDLPGQ KD Q YWLG PR HSYEAEFRAVSMKP LPSAPGPT YY

430 440 450 460 470 480
 HUMAN PGCCEVILAPGAGCWWVVAPOXBRPKMGRASWRRPBMPTLPRMERGCGCGSECRCGREDOCGPRIVYNTL

HUMAN	RGQEVLAPGAGWPVAFQYPPKMGPAASWFKPMRILPMEFGPGGSEGRGPEDQGFLVWIEI
MOUSE	RGQDVLAPGAGWPVAPQYPPKMSPAGWFRPMRTLPMDPGLGSSEQG---SSPSLWPEV

CONSENSUS: RGO VIAPGAGWPVAPOYPPKM PA WFRPMRTLPM PG G SE G P W E

	490	500	510	520	530
HUMAN	APIRP ESSSD	GSL GE GDS	KRR RV	S P Y P S S G D S S P A G A P S P F D K E A E G O F Y N T F P N	

MOUSE TSLQPEPSDGLGEGDTKRRRISYPSSGDSSSPAGAPSPFDKETEGQFYNYFPN
480 490 ↑↑↑↑ 500 510 520 530

PE SDSGLGEGLD KBRB SPYPSGDSSSPAGAPSPEDE EGOEYNYEPR

Fig. 1A (continued)

	10	20	30	40	50	60
HUMAN	ATGGGCATCGTGGAGCCGGGTTGCGGAGACATGCTGACGGCACCGAGCCGATGCCGGGG	.....	.....	.....	.....	.....
MOUSE	ATGGGCATCGTGGAGCCGGGCTGCGGAGACATGCTGACCGCACCGAGCCGATGCC---G	.....	.....	.....	.....	.....
	10	20	30	40	50	
	70	80	90	100	110	120
HUMAN	AGCGACGAGGGCCGGCGCCTGGCGCCGACCCGCAGCACCGCTACTTCTACCCGGAGCCG	.....	.....	.....	.....	.....
MOUSE	AGTGACGAGGGCCGGGGGCCGGAGCGGGACCAACAGCATCGTTCTTCTATCCGAGCCG	.....	.....	.....	.....	.....
	60	70	80	90	100	110
	130	140	150	160	170	180
HUMAN	GGCGCGCAGGACGCGGACGAGCGTCGCAGGGGGCGGCAGCCTGGGGTCTCCCTACCCGGGG	.....	.....	.....	.....	.....
MOUSE	GGCGCACAGGACCCGACCGATGCCCGCAGGTAGCAGCCTGGGGACGCCCTACTCTGGG	.....	.....	.....	.....	.....
	120	130	140	150	160	170
	190	200	210	220	230	240
HUMAN	GGCGCCTTGGTGCCCGCCCCGCCAGGCCGAGCCGCTTCCTTGGAGCCTACGCCTACCCGCCGCGA	.....	.....	.....	.....	.....
MOUSE	GCGCCTGGTGCCTGCCCGCCGGGTGCGTTCCCTTGGATCCTTCGCCTACCCGCCCGGG	.....	.....	.....	.....	.....
	180	190	200	210	220	230
	250	260	270	280	290	300
HUMAN	CCCCAGGCAGGCCGGCTTCCCCGGCGCGGGCGAGTCCTTCCCGCCGCCGCGGACGCCGAG	.....	.....	.....	.....	.....
MOUSE	GCTCAGGTGGCTGGCTTCCCGGGCCTGGCGAGTTCTTCCCGCCGCCGCGGGTGCAGGAG	.....	.....	.....	.....	.....
	240	250	260	270	280	290
	310	320	330	340	350	360
HUMAN	GGCTACCAGCCGGCGAGGGCTACGCCGCCCGGACCCGCAGGCCGGCTACCCGGGG	.....	.....	.....	.....	.....
MOUSE	GGCTACCCGCCCGTGGATGGCTACCCCTGCCCTGACCCGCAGGCCGGCTACCCAGGG	.....	.....	.....	.....	.....
	300	310	320	330	340	350
	370	380	390	400	410	420
HUMAN	CCGCGTGAGGACTACCGCCTACCCGCCGGACTGGAGGTGTCGGGGAAACTGAGGGTCGCG	.....	.....	.....	.....	.....
MOUSE	CCGCGCGAGGACTACGCATTGCCCGCGGGGTGGAGGTGTCGGGAAGCTGAGAGTCGCG	.....	.....	.....	.....	.....
	360	370	380	390	400	410

Fig. 1B

HUMAN	430	440	450	460	470	480
	CTCAACAAACCACCTGTTGGTCCAAGTTAACATCAGCACCAGACAGAGATGATCATCACC					
MOUSE	420	430	440	450	460	470
	CTCAGCAACCACCTGTTGGTCCAAGTTAACATCAGCACCAGACAGAGATGATCATCACT					
HUMAN	490	500	510	520	530	540
	AAGCAGGGACGGCGGATGTTCCCATTCTGTCTTTACTGTGGCCGGCTGGAGCCCACC					
MOUSE	480	490	500	510	520	530
	AAGCAAGGACGGCGAACATGTTCCCATTCTGTCTTCACCCTGGCCGGCTGGAGCCCACA					
HUMAN	550	560	570	580	590	600
	AGCCACTACAGGATGTTGGACGTGGCTTGGTGGACAGCACCCTGGCGGTACCAAG					
MOUSE	540	550	560	570	580	590
	AGCCATTACAGGATGTTGGATGTGGCTTGGTGGACAGCACCCTGGCGGTACCAAG					
HUMAN	610	620	630	640	650	660
	AGCGGCAAGTGGGTGCAGTGTGGAAAGGCCGAGGGCAGCATGCCAGGAAACCGCCTGTAC					
MOUSE	600	610	620	630	640	650
	AGCGGCAAGTGGGTGCAGTGTGGAAAGGCAGAAGGCAGCATGCCAGGAAACCGCTTATAT					
HUMAN	670	680	690	700	710	720
	GTCCACCCGGACTCCCCAACACAGGAGCGCACTGGATGCGCCAGGAAGTTTCATTGGG					
MOUSE	660	670	680	690	700	710
	GTCCACCCAGACTCCCCAACACCGGAGCCACTGGATGCGCCAGGAAGTTTCATTGGG					
HUMAN	730	740	750	760	770	780
	AAACTAAAGCTCACAAACAACAAGGGGGCTCCAACAAATGTGACCCAGATGATTGTGCTC					
MOUSE	720	730	740	750	760	770
	AAGCTAAAGCTCACCAACAAACAAGGGGGCTCCAACAAATGTGACCCAGATGATCGTCCTG					
HUMAN	790	800	810	820	830	840
	CAGTCCCTCCATAAGTACCAAGCCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCCA					
MOUSE	780	790	800	810	820	830
	CAGTCTCTCCACAAGTACCAAGCCCCGGCTGCACATCGTGGAGGTGAATGATGGAGAGCCA					

Fig. 1B (continued)

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	850	860	870	880	890	900
HUMAN	GAGGCAGCCTGCAACGCTTCAACACGCATATCTTACTTTCCAAGAAACCCAGTCATT					
MOUSE	GAGGCTGCCTGCAGTGCTTCAACACACACGTCTTACTTTCCAAGAGACCCAGTCATT					
	840	850	860	870	880	890

	910	920	930	940	950	960
HUMAN	GCCGTGACTGCCTACCAGAACGCGAGATTACTCAGCTGAAAATTGATAATAACCCCTT					
MOUSE	GCAGTGACTGCCTACCAGAACGCGAGAGATCACTCAGCTGAAAATCGACAACAACCCCTT					
	900	910	920	930	940	950

	970	980	990	1000	1010	1020
HUMAN	GCCAAAGGATTCCGGGAGAACCTTGAGTCCATGTACACATCTGTTGACACCAGCATCCCC					
MOUSE	GCCAAAGGATTCCGGGAGAACCTTGAGTCCATGTACGCATCTGTTGATACGAGTGTCCCC					
	960	970	980	990	1000	1010

	1030	1040	1050	1060	1070	1080
HUMAN	TCCCCGCCTGGACCCAAGTCAATTCCCTGGGGGAGATCACTACTCTCCTCTCCTACCC					
MOUSE	TCGCCACCTGGACCCAAGTCAACTGCTGGGGGAGACCCCTCTCACCTCTTCTATCC					
	1020	1030	1040	1050	1060	1070

	1090	1100	1110	1120	1130	1140
HUMAN	AACCAGTATCCTGTTCCAGCCGCTTACCCCGACCTCCTGCCAGGGGAAGGATGTG					
MOUSE	AACCAGTATCCTGTTCCAGCCGTTACCCCGACCTCCAGGCCAGCCAAGGATATG					
	1080	1090	1100	1110	1120	1130

	1150	1160	1170	1180	1190	1200
HUMAN	GTTCCCCAGGCTTACTGGCTGGGGCCCCCGGGACACAGCTATGAGGCTGAGTTCGA					
MOUSE	ATCTCACAGCCTTACTGGCTGGGACACCTCGGGAACACAGTTATGAAGGGAGTTCCGA					
	1140	1150	1160	1170	1180	1190

	1210	1220	1230	1240	1250	1260
HUMAN	GCAGTCAGCATGAAGCCTGCATTCTGCCCTCTGCCCTGGGCCACCATGTCCTACTAC					
MOUSE	GCTGTGAGCATGAAGCCCACACTCCTACCCCTCTGCCCGGGGCCACTGTGCCCTACTAC					
	1200	1210	1220	1230	1240	1250

Fig. 1B (continued)

HUMAN	1270	1280	1290	1300	1310	1320
	CGAGGCCAGGAGGTCTGGCACCTGGAGCTGGCTGGCCTGTGGCACCCAGTACCTCCC					
MOUSE	1260	1270	1280	1290	1300	1310
	CGGGGCCAAGACGTCTGGCGCTGGAGCTGGTGGCCCTCAATACCGCCC					
HUMAN	1330	1340	1350	1360	1370	1380
	AAGATGGGCCGGCCAGCTGGTCCGCCCTATGCGACTCTGCCATGGAACCCGGCCCT					
MOUSE	1320	1330	1340	1350	1360	1370
	AAGATGAGCCCAGCTGGCTGGTCCGGCCATGCGAACTCTGCCATGGACCCGGGCCTG					
HUMAN	1390	1400	1410	1420	1430	1440
	GGAGGCTCAGAGGGACGGGACCAAGAGGACAGGGTCCCCCTGGTGTGGACTGAGATT					
MOUSE	1380	1390	1400		1410	1420
	GGATCCTCAGAGGAACAGGGCTCCT-----CCCCCTCGCTGTGGCCTGAGGTC					
HUMAN	1450	1460	1470	1480	1490	1500
	GCCCCATCCGGCCGGAATCCAGTGATTCAAGACTGGCGAAGGAGACTCTAAGAGGAGG					
MOUSE	1430	1440	1450	1460	1470	1480
	ACCTCCCTCCAGCCGGAGCCAGCGACTCAAGGACTAGGCGAAGGAGACACTAAGAGGAGG					
HUMAN	1510	1520	1530	1540	1550	1560
	CGCGTGTCCCCCTATCCTTCCAGTGGTGACAGCTCCTCCCTGCTGGGGCCCTTCCT					
MOUSE	1490	1500	1510	1520	1530	1540
	AGGATATCCCCCTATCCTTCCAGTGGCGACAGCTCCTCTCCGCTGGGGCCCTTCCT					
HUMAN	1570	1580	1590	1600		
	TTTGATAAGGAAGCTGAAGGACAGTTTATAACTATTTCCCAACTGA					
MOUSE	1550	1560	1570	1580	1590	
	TTTGATAAGGAAACCGAAGGCCAGTTTATAATTATTTCCCAACTGA					

Fig. 1B (continued)

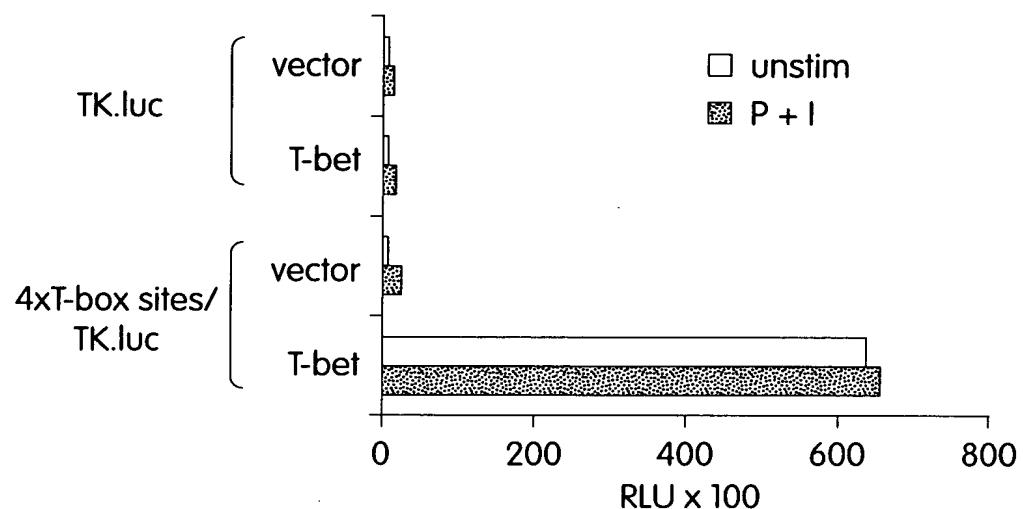


Fig. 2A

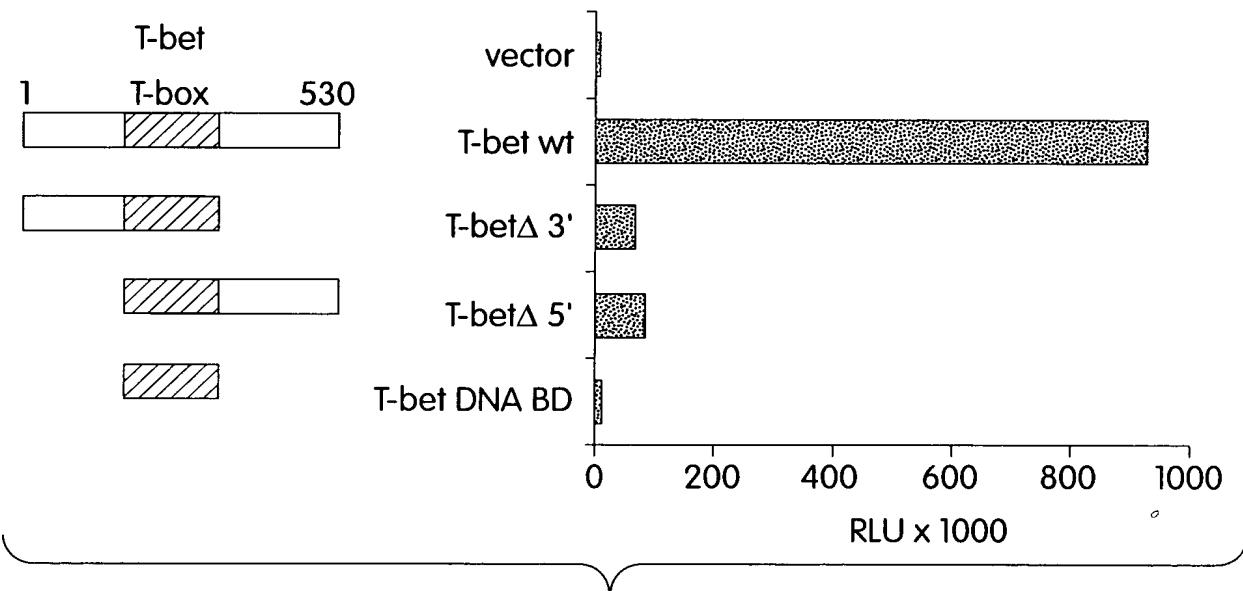


Fig. 2B

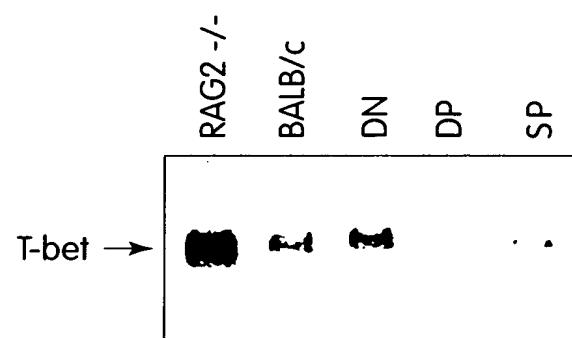


Fig. 3A



Fig. 3B

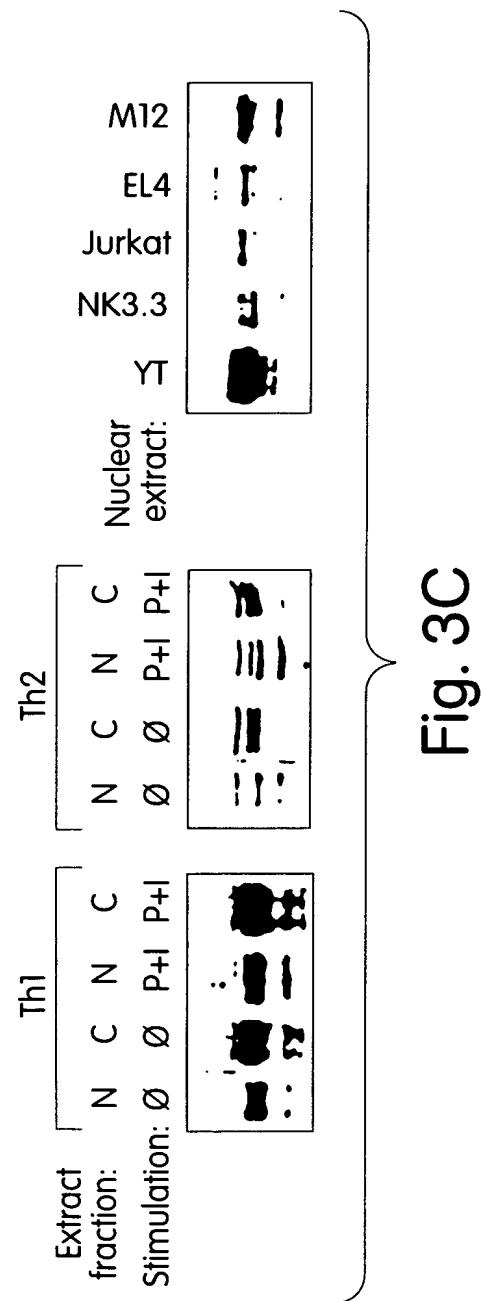


Fig. 3C

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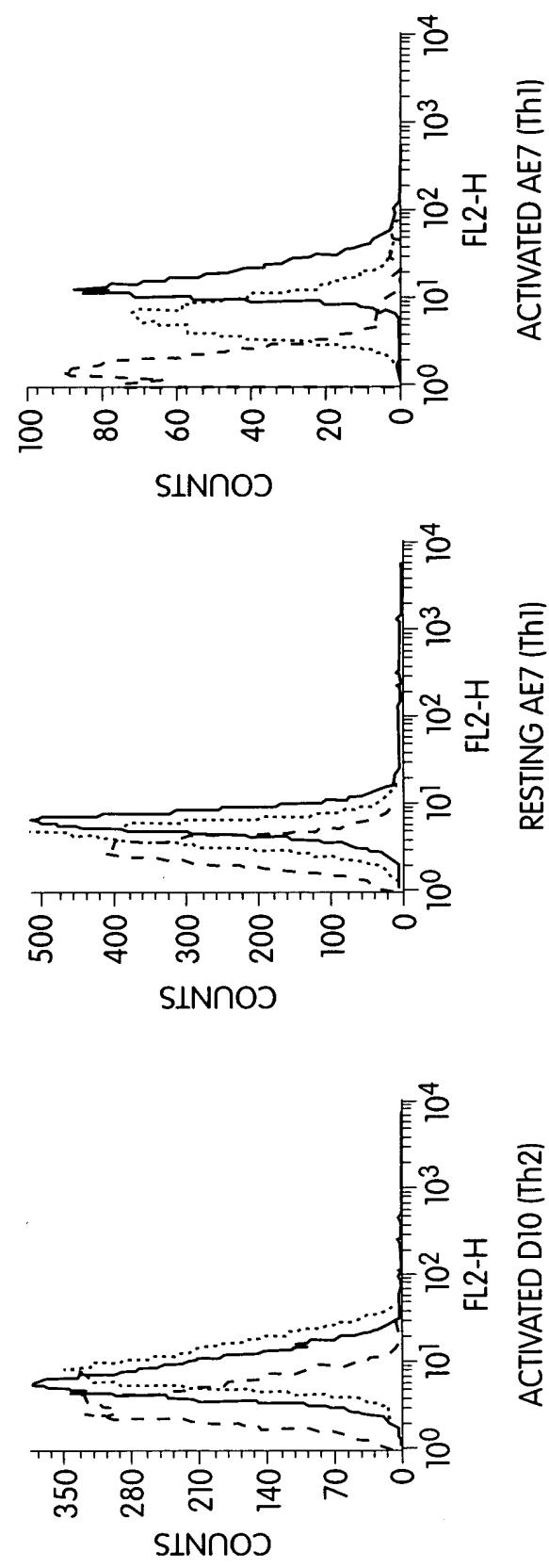


Fig. 3D

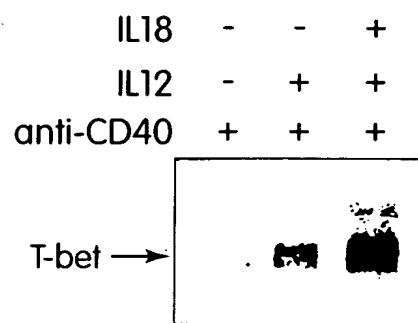


Fig. 4A

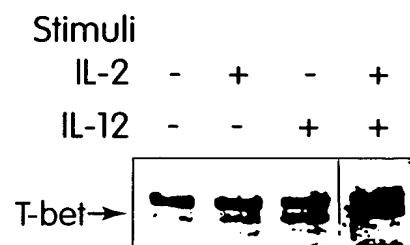


Fig. 4B

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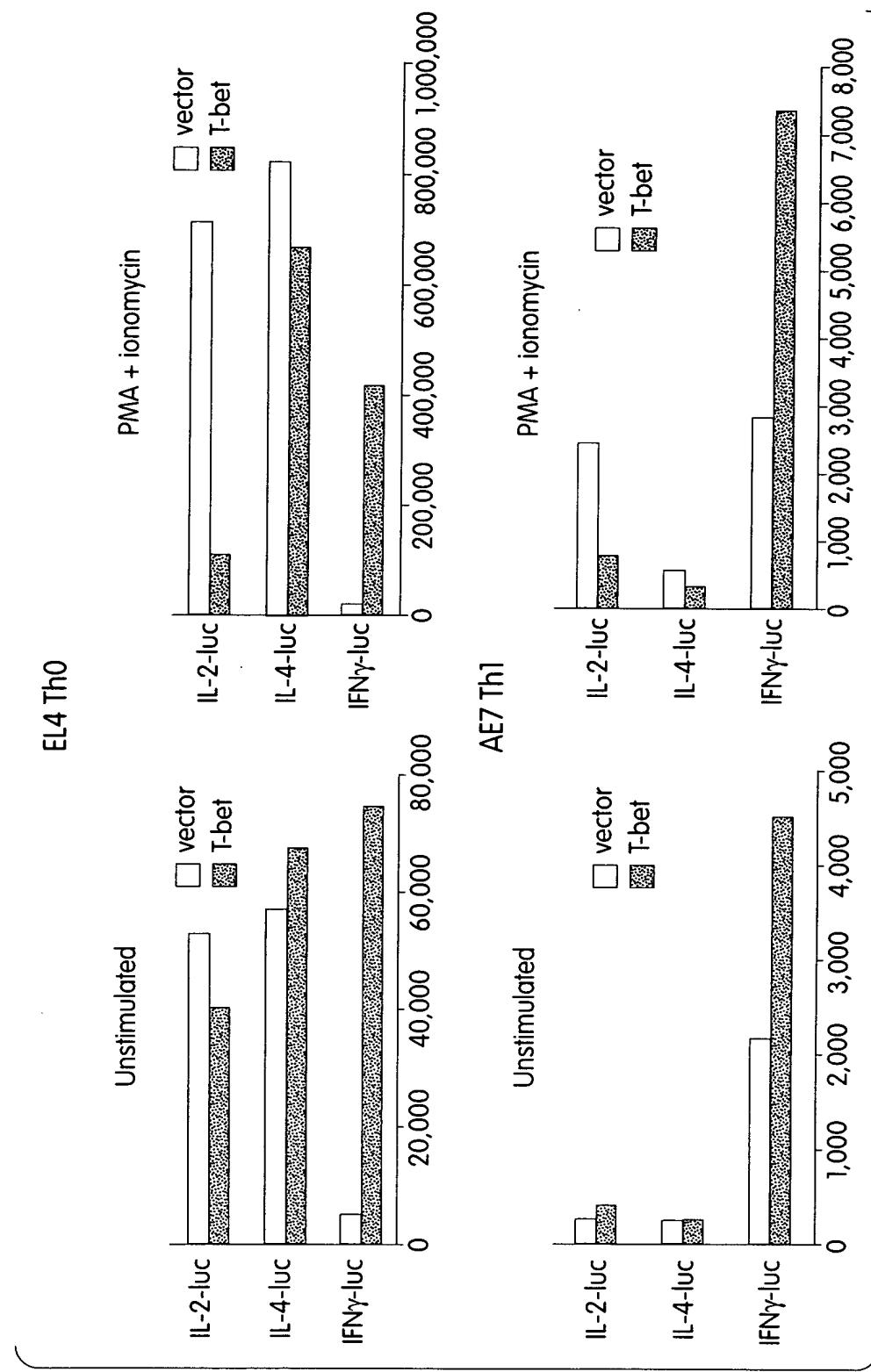


Fig. 5

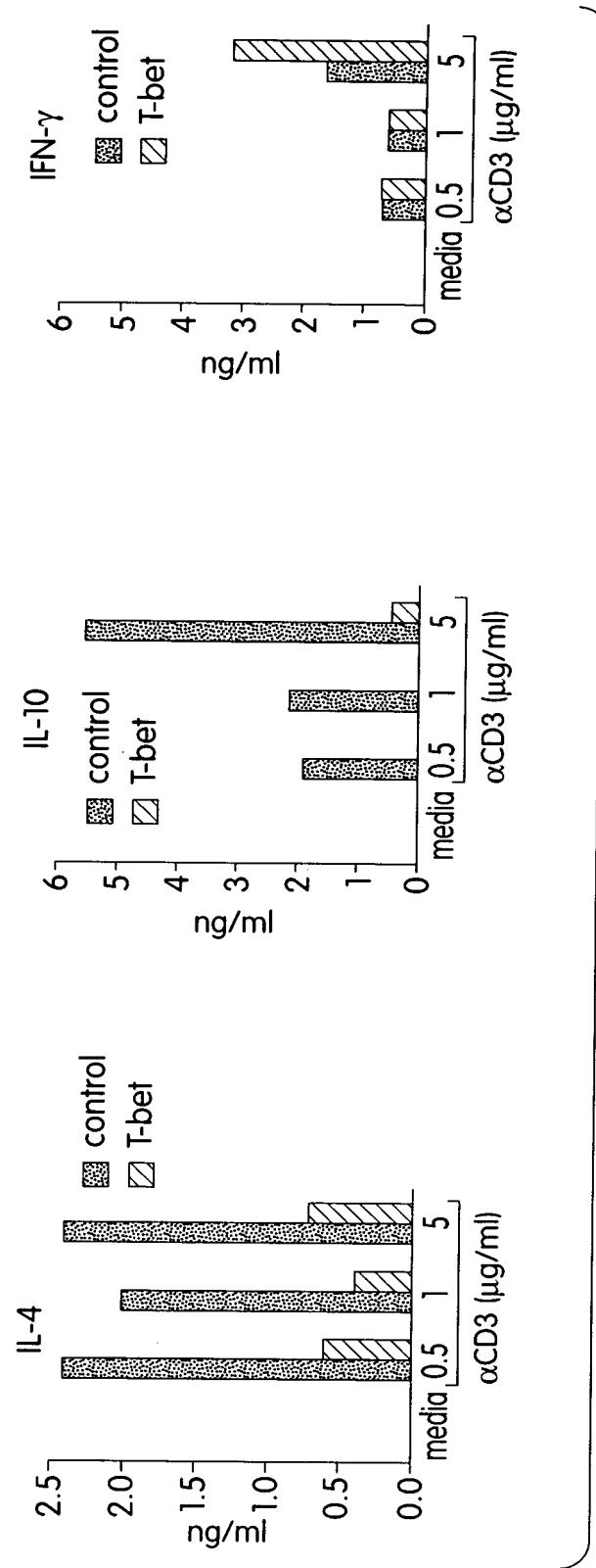


Fig. 6

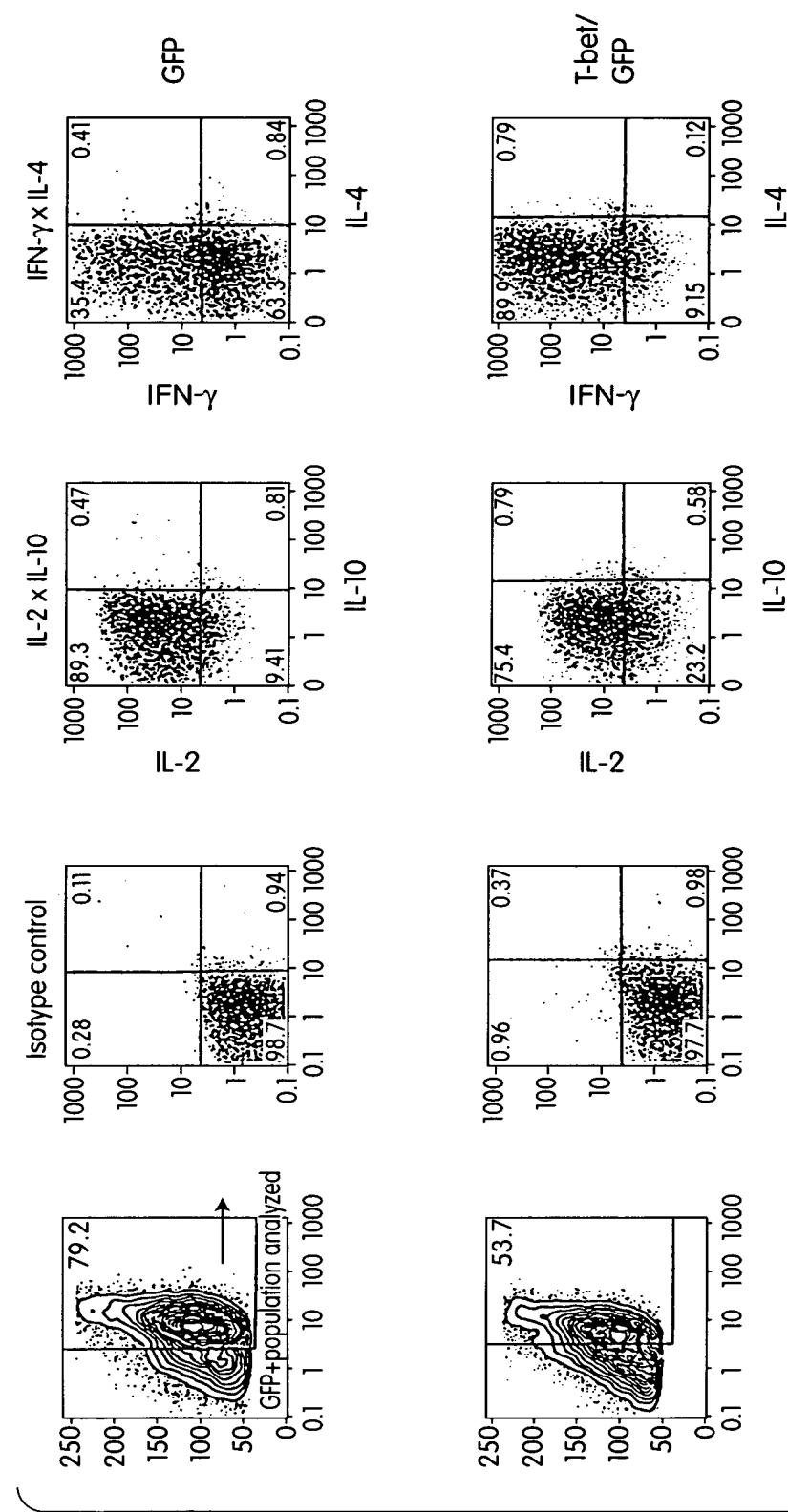
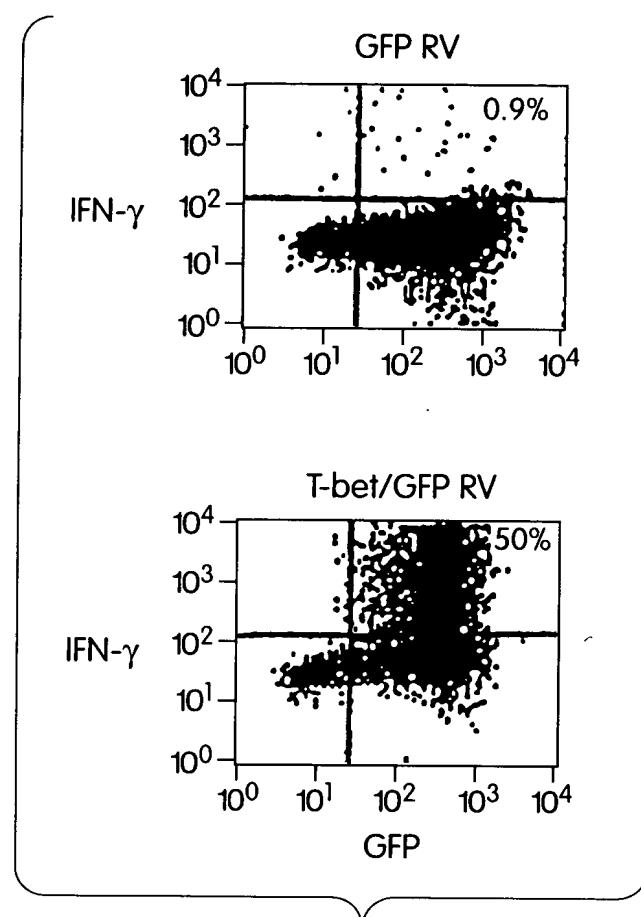


Fig. 7



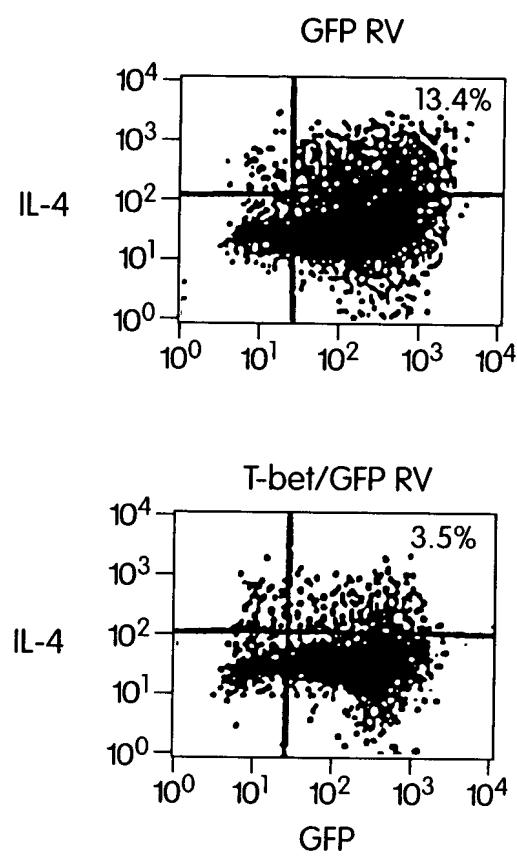


Fig 8B

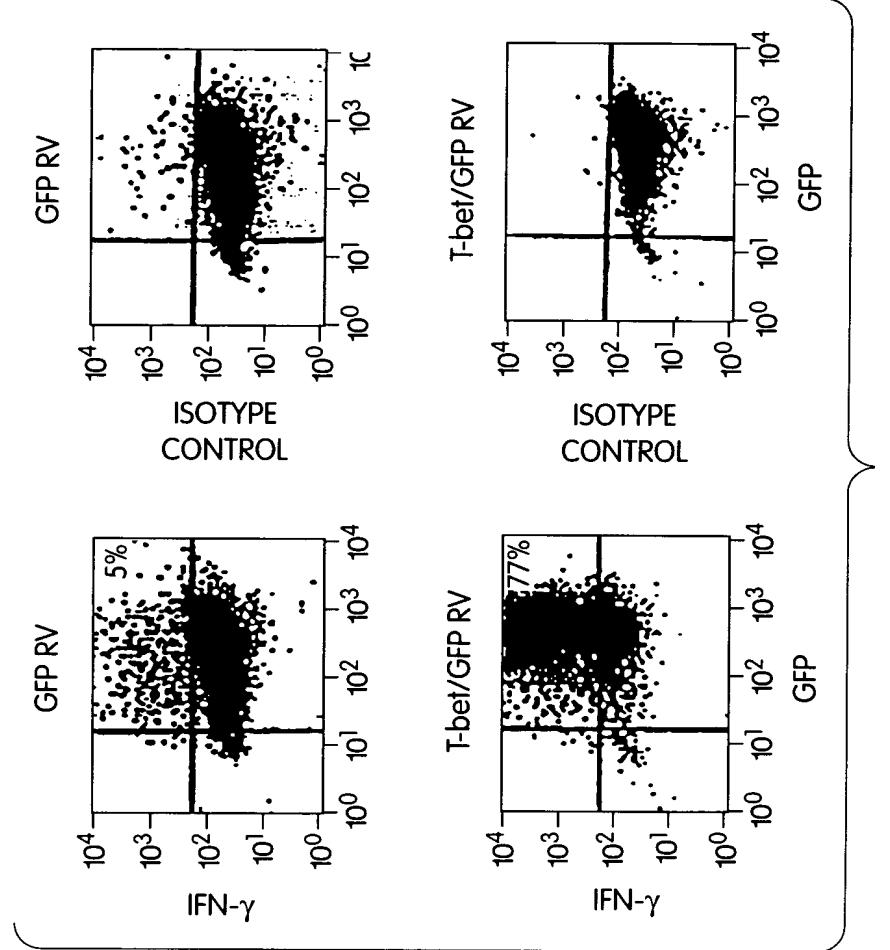


Fig 9A

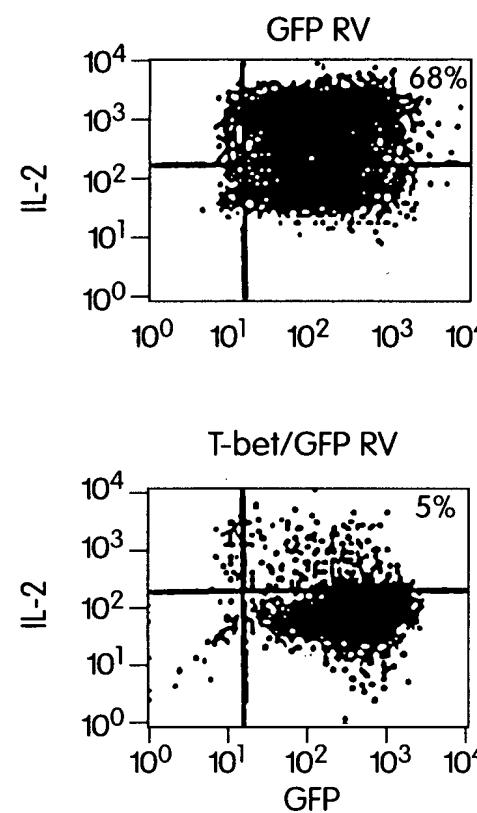


Fig 9B

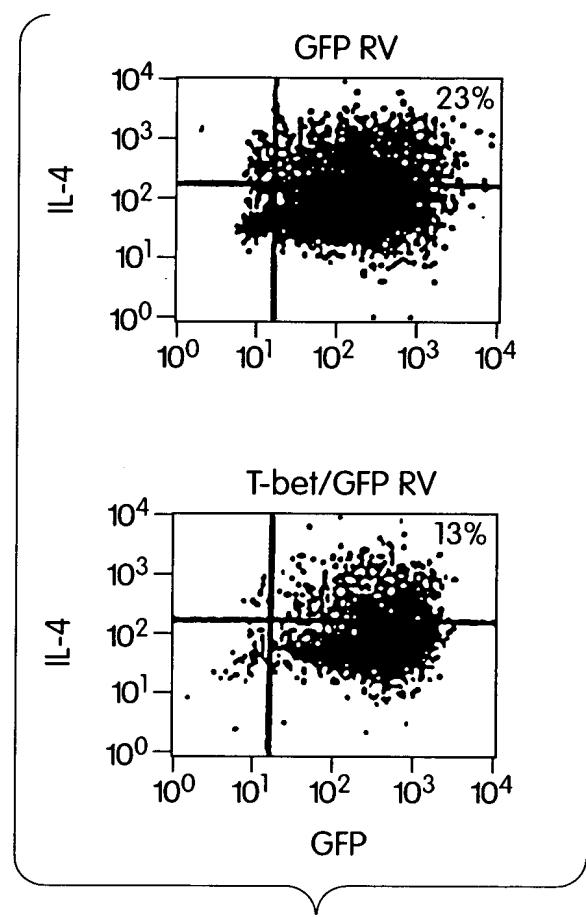


Fig 9C

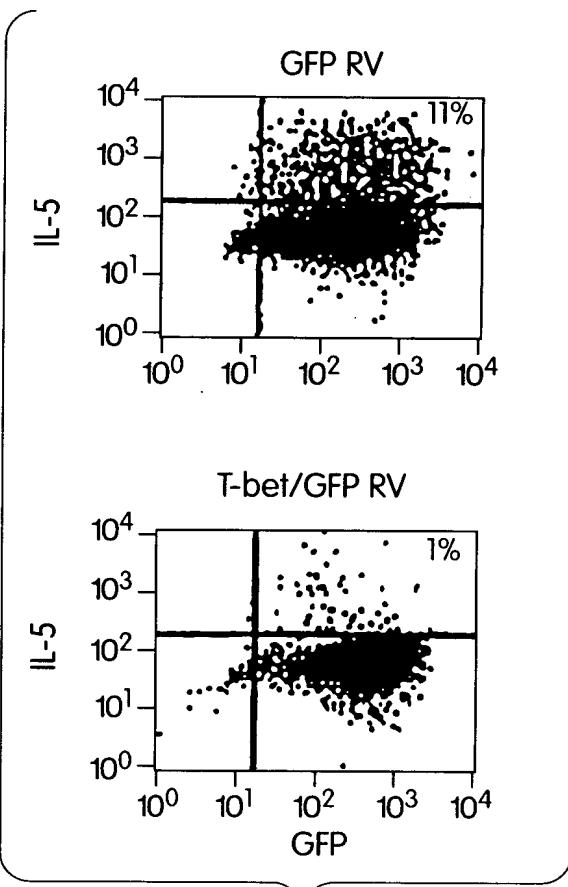


Fig 9D

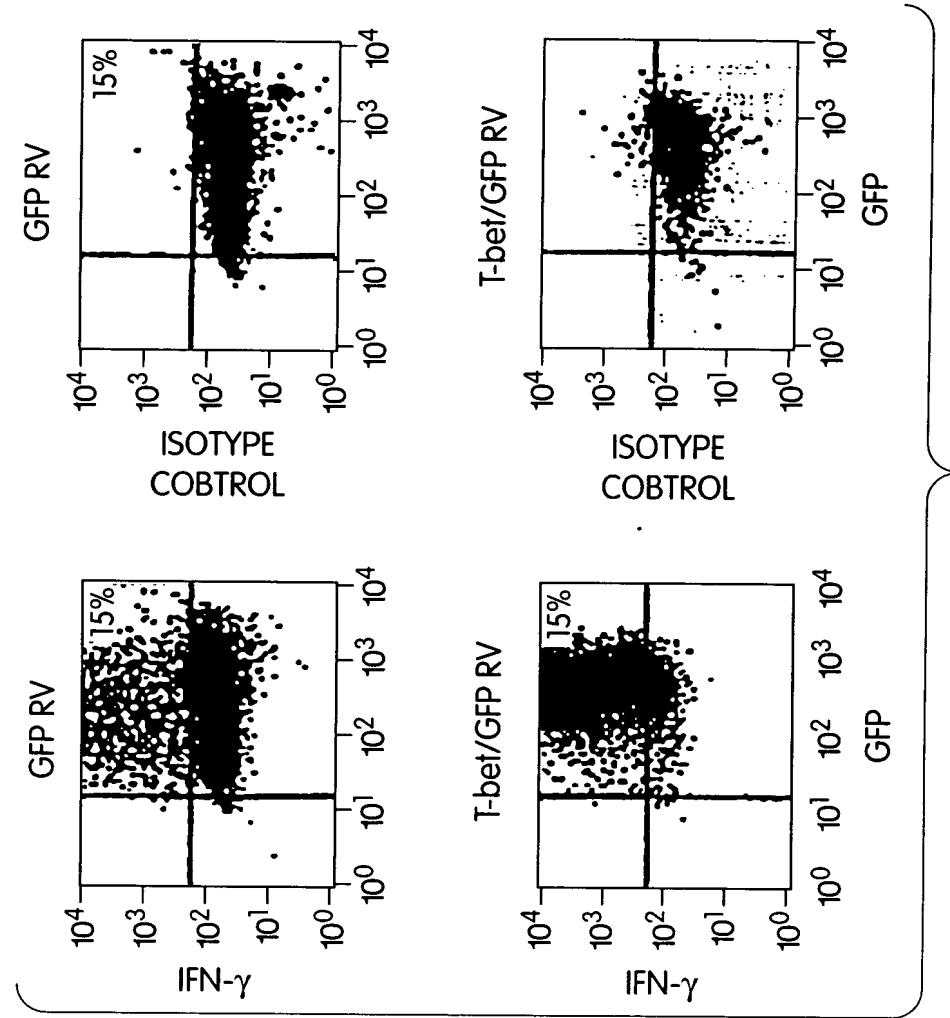


Fig 10A

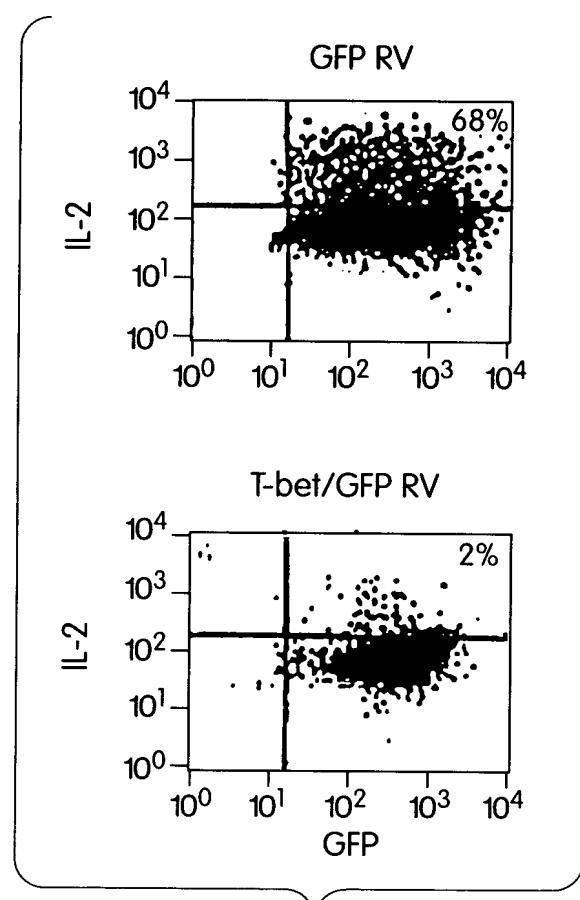


Fig. 10B

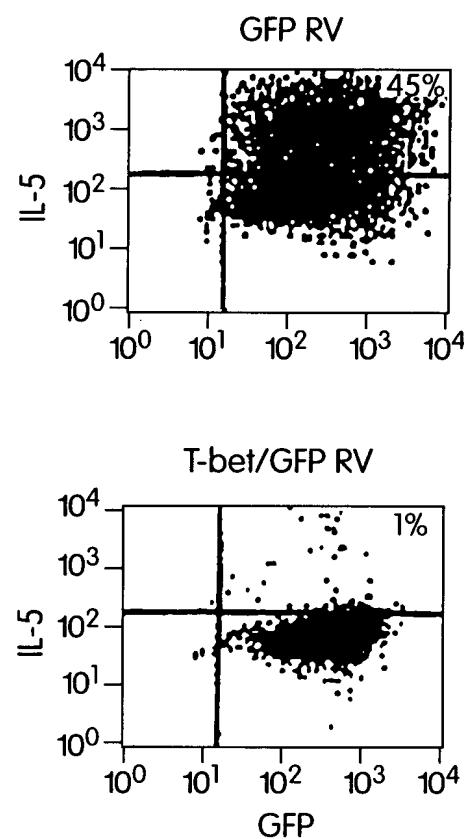


Fig. 10C

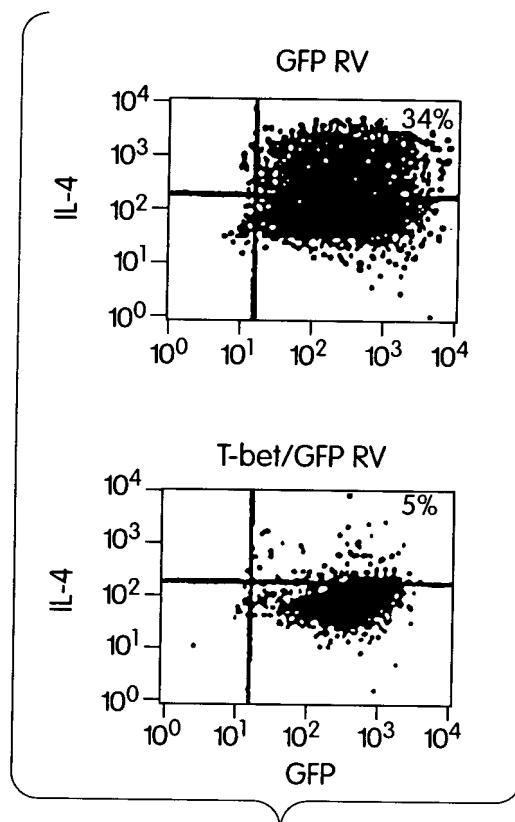
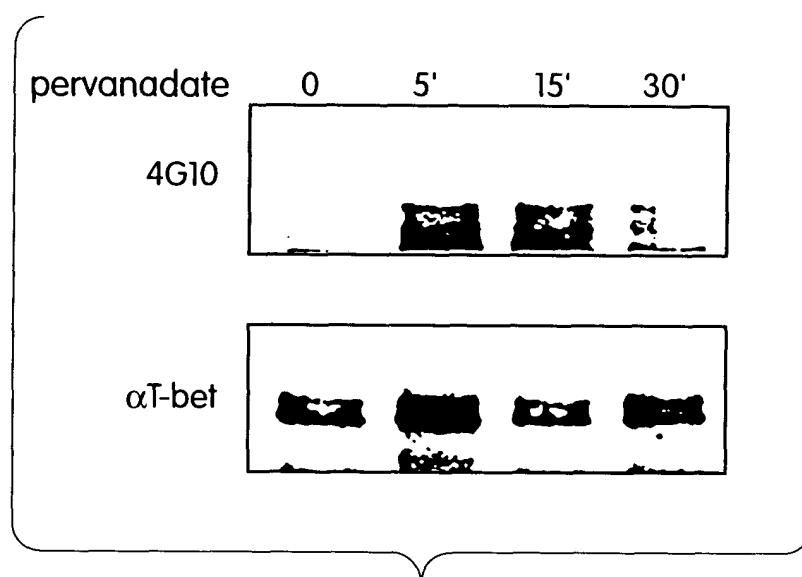


Fig. 10D



Continuation-in-part Application entitled:
T-BET COMPOSITIONS AND METHODS OF USE THEREOF

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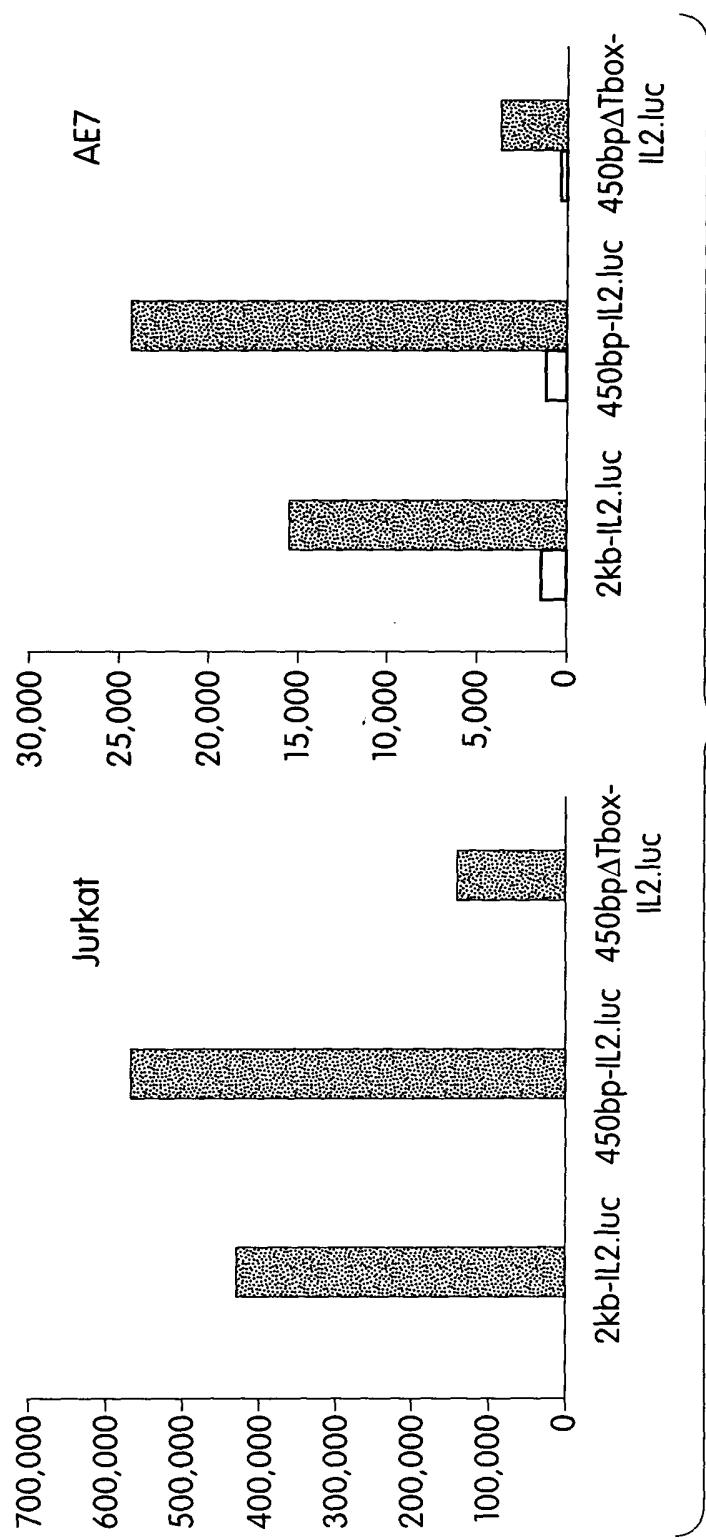


Fig. 13